



CONVOCATION SCURRY not seen by the graduands is the preparation of more than 1,900 diplomas, individually printed at about 10 per hour by the University's Printing Department. Compositor Fred Sobecki hand sets the type for the candidate's name, and puts it in the framework of lettering for the basic diploma. Pressman Henk Bres prints one proof, checks it, and prints the final copy. Only the Registrar's Great Seal must be added; the signatures are printed along with the type.

Premier to receive Alumni Golden Jubilee Award

The Honourable Dr. Ernest C. Manning, Premier of Alberta, will receive the Alumni Golden Jubilee Award for 1967, the Alumni Association has announced. The Award will be presented at the second part of Spring Convocation by His Honour Judge B. C. Whittaker, new President of the Association.

This is the second time the University has honored the Premier. In 1948, the honorary degree of Doctor of Laws was conferred.

The Alumni Golden Jubilee Award was first presented in 1958, the University's Jubilee Year. It is given annually to a person who has made an important contribution to the University's welfare, either directly or indirectly. Dr. Manning, head of the Government of Alberta for 24 years, was chosen to receive the award in recognition of the Government's longstanding interest in and support of the Uni-

versity and its activities.

Honorary degrees will be conferred on each of the three days of Spring Convocation.

On May 30, Dr. A. D. P. Heeney will receive his degree. He will give the Convocation Address. The President, Dr. Walter H. Johns, will present a Report to Convocation.

On May 31, degrees will be conferred on Mrs. Helen Beny Gibson and the Right Honourable Dr. Roland Michener. Mrs. Gibson will give the Address. Dr. Max Wyman, Vice-President, Academic, will make a Report to Convocation. The award will be presented to Dr. Manning.

On June 1, degrees will be conferred on Dr. A. W. Matthews and Dr. Murray L. Barr. Dr. Matthews will give the Address. A Report to Convocation will be made by the Dean of the Faculty of Medicine, Dr. Walter C. MacKenzie.



Dr. W.H. Johns,
President,
U. of A.

Staff news

ELECTED HONORARY FELLOW OF APA

Dr. Ludwig von Bertalanffy, Professor of Theoretical Biology, was elected Honorary Fellow of the American Psychiatric Association at its Annual Meeting, in Detroit, May 8 to 13.

Dr. von Bertalanffy, keynote speaker of the session, "General Systems Theory and Psychiatry," was awarded the fellowship "for his pioneering work in the application of general systems theory in psychiatry."

The 16,000-member APA has awarded honorary fellowships to only 19 individuals. Dr. von Bertalanffy is the first Canadian to receive one.

The attendance at the session on "General Systems Theory and Psychiatry" was very well attended, and comprised two parts. The first was devoted to "General and Theoretical Considerations," and the second to clinical "Applications" of the systems approach in psychiatry such as current clinical and research programs in community psychiatry, educational and school psychology, family therapy, and industrial psychiatry.

Among the speakers were Dr. Karl Menninger, Chief of the Menninger Clinic and Foundation in Topeka, Dr. Roy Grinker, Director of the Michael Reese Hospital in Chicago, Silvano Arieti, editor of the "American Handbook of Psychiatry," and Raymond W. Waggoner, Chairman of the Mental Health Research Institute, Ann Arbor.

TELEVISION ART SERIES TO CONTINUE

Helen Diemert, Dr. Bernard Schwartz and Murray MacDonald of the Faculty of Education have agreed to produce the Creative Hands television series for the Alberta Department of Education for a further year.

The program began in 1964 as an experiment in teaching art by television, and during the current year it is seen over the CBC network in some 1,750 classrooms with a total of more than 52,000 pupils in Grades 4, 5 and 6.

A special feature this year will be a five-minute period during each program

devoted to discussion of the work created by the youngsters following the previous telecast. Theme for the 1967-68 programs will be the nature of materials for visual expression. In keeping with the new methods in art education, program content will balance learning to make art, with learning to see, understand, and appreciate art.

TO ATTEND MUSIC CONFERENCE

Richard S. Eaton, Head of the Department of Music, and Associate Professors Miss Violet Archer and Thomas Rolston, will attend the Conference of the Arts and the University, and the meeting of the Canadian Association of University Schools of Music, at Queen's University, Kingston, in July. Mr. Eaton is Treasurer of CAUSM. Miss Archer will also attend the convention of the Canadian Federation of Music Teachers, in Toronto during July.

NEW BOOK

The North American Indians, by Dr. Roger C. Owen and Dr. James J. F. Deetz, of The University of California, Santa Barbara, and Dr. A. D. Fisher of the Department of Anthropology here, was recently published by the Collier Macmillan Company. The book is a comprehensive survey of Indians and Eskimos throughout North America, north of the Rio Grande. It is a collection of articles, written from the 1880's to the present, by prominent anthropologists.

CENTENNIAL MUSIC COMMISSIONED

Miss Violet Archer, Associate Professor of Music, is completing two musical compositions commissioned especially for the Centennial Year. One is a Chorale Prelude on "O Worship The King," commissioned by Mr. Hugh Bancroft, organist of All Saints Cathedral in Edmonton. Mr. Bancroft will include this new work in daily recitals at Expo 67, July 28 to August 3 in Montreal. The second is an anthem, "O Lord Thou Hast Searched Me and Known Me," for mixed chorus and organ, commissioned by the Edmonton Branch of the Royal Canadian College of Organists. It will be performed for the first time this summer by the choir of Robertson United Church, under the direction of Mr. Douglas Millson, church organist.



FOLIO

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Graduate Studies to handle research grants

The Faculty of Graduate Studies has assumed the responsibility for handling applications for research grants made to the University. The Dean, Dr. A. G. McCalla, is now the signing officer.

It is the intention of the senior officers of the Faculty, he has indicated, to get as much information as possible about available sources of grant money, and to pass this information on to those most concerned as quickly as possible.

Entomologists here

The Department of Entomology was host May 11 to 13 for the Spring Meetings of the Advisory Committee on Entomological Research of the Defence Research Board.

Some 40 members of the Department and visiting delegates from Canada, the United States and as far away as Tanzania met to discuss problems of defense and the control of diseases transmitted by insects.

Business meetings, a symposium on medical entomology and visit to the Department on campus were held Thursday and Friday.

Saturday the group visited the Department's, George Lake field site where research is conducted on insects in their natural habitat. George Lake is 50 miles north west of Edmonton.

Dr. Brian Hocking, Head of the Department of Entomology, is the Edmonton member of the Advisory Committee which meets twice yearly.

Roman summer courses to occupy British Academy

One wing of the British Academy in Rome is to be taken over by Canadians this summer when The University of Alberta moves in with some 61 students registered in the first two courses ever held outside Alberta by the University.

The courses are Classics 459, and a Department of Extension course in Art, Archaeology and Civilization. Instructors are Dr. Gustave Hermansen, Assistant Professor of Classical History, Douglas Barry, Assistant Professor of Art in the Department of Extension, and Francesco Roncalli, Director of the Gregorian Museum in the Vatican. Mr. Roncalli, a nephew of the late Pope John, has lectured in archaeology at Fordham University, in New York City.

The famous British Academy, a centre for advanced Roman studies, is closed during July and August, but Dr. Hermansen has recently concluded negotiations for Canada to take over one wing of the Pincio Park structure for the Alberta group.

Dr. Hermansen will also do research in

Rome in connection with seventeenth century correspondence between the Jesuits in Canada and Pope Urban VIII in connection with the Ste. Marie mission at Midland (on Georgian Bay). Rebuilding of the mission is presently being undertaken by the University of Western Ontario.

About 34 students are registered in Classics 459, and some 27 in the Extension course. Many of the students are from universities in Eastern Canada. The group leaves by air from Montreal, July 10 and returns August 28.

Boomer lectures held

Professor Henry S. Frank, Professor of Chemistry at the University at Pittsburgh and Adjunct Senior Fellow at the Mellon Institute, will be guest lecturer at the 1967 Edward Herbert Boomer Memorial Lecture Series, sponsored by the Department of Chemistry this week.

The lecture series recognizes the contributions of the late Professor H. E. Boomer, FCIC, FRSC, who was associated with the Department of Chemistry from 1925 until his death in 1945.

Dr. Frank holds degrees from the University of Pittsburgh and the University of California, Berkeley, and has taught at both Institutions as well as at Lingnan University, Canton, China. He was Chairman of the Department of Chemistry at the University of Pittsburgh from 1951 to 1963.

His researches have dealt primarily with liquids and solutions, particularly water and aqueous solutions. He has been a member of advisory committees to the United States government research agencies and of the editorial board of the Journal of Chemical Physics and was recipient of the 1964 Pittsburgh Award of the American Chemical Society.

Planning Vice-President sought

A new position, Vice-President for Planning and Development, has been created by the Board of Governors, on the suggestion of the General Faculty Council. Candidates for the position are now being sought, and a committee has been established to make recommendations to the Board concerning applicants.

Members of the staff with suggestions about candidates may forward them to the President, Dr. Walter H. Johns, before June 5.

Committee membership is drawn from the Board, the General Faculty Council, and the Association of the Academic Staff of The University of Alberta. Members are Dr. J. E. Bradley, Chairman of the Board of Governors, and R. K. Banister, Chairman of the Board's Building Committee; Dr. George Ford, Head of Mechanical Engineering, and Dr. M. Wyman, Vice-Presi-

dent, Academic (both representing the Council), Dr. W. F. Allen of Chemistry (President of the Staff Association), and Dr. Johns, the committee's Chairman.

The selection procedure was suggested by the General Faculty Council.

The new Vice-President's responsibilities will include orderly development and expansion of the physical plant.

Receives cement research grant

The Department of Civil Engineering has been chosen to receive the first research grant awarded in Canada by the Portland Cement Association.

The Department is one of the few in Canada having complete facilities for this type of research, at its three-year old, Structural Engineering Laboratory.

The Portland Cement Association, which represents cement manufacturers in Canada and the United States, has awarded \$15,000 for the project to study "the fatigue strength of high-strength reinforcement in reinforced concrete beams." The study is expected to last some 16 months.

Joseph H. Walker, Vice-President for Research and Development, Portland Cement Association, of Skokie, Illinois, visited the Department recently to examine the facilities here and to initiate the research project.

Dr. J. G. MacGregor, Associate Professor of Civil Engineering, will head the project assisted by Professor Jack Longworth of the Department.

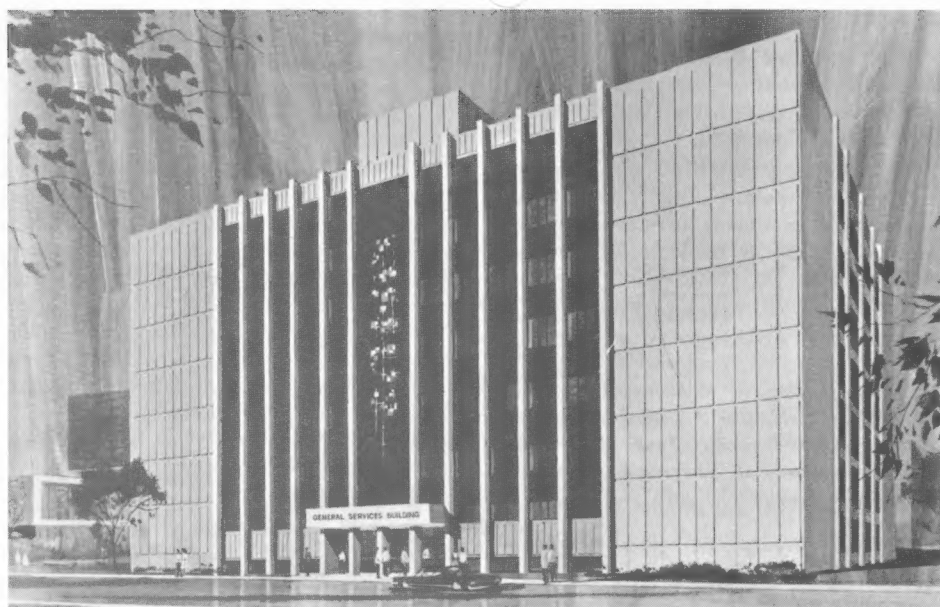
Physical education standards published

A statement of standards for physical education and athletics in Canadian universities has been published as a result of an AUCC-sponsored conference in Toronto last year.

The conference had been chaired by Dr. M. L. Van Vliet, Dean of the Faculty of Physical Education, who served, along with Dr. Patricia Austin, as a member of the Editorial Committee. Dr. W. D. Smith and Dr. Max Howell were conference participants. All teach in the Faculty of Physical Education.

Specific recommendations are made in the booklet, which is designed to serve as a standard reference for administrators, concerning faculty, community responsibility, research, graduate studies, undergraduate curriculum, intercollegiate athletics, the intramural program, and the instructional service program.

Among the recommendations is that the intramural program should be financed by the institution and not be dependent on a student fee. Another is that the institution should take full responsibility for financing the intercollegiate program and ath-



General Services Building underway soon

Construction of the General Services Building is to commence shortly at The University of Alberta. It will be in use for the fall session of 1968.

The building, on 115 Street just north and east of the new Printing Services Building, will envelop the space now occupied by the Grounds Building and will be joined to the Shipping and Receiving Building.

Net floor space provided by the eight-storey structure will be 157,000 square feet. The first and basement floors will be warehouse space. Exterior will be exposed concrete panels with textured finish and some face brick.

A new approach was used in tendering for this building. Contractors were invited to submit proposals for the design and erection of a general purpose building, cost of which was not to exceed \$3,000,000.

The construction companies were thereby given the opportunity to work with architects and consulting engineers to reduce costs at the design stage so that the maximum amount of usable square footage could be obtained for the money available.

Eight proposals were submitted, and after considerable study the Board of Governors accepted the proposal of Poole Construction Limited.

letic fees should not be indicated separately in the student fee structure.

Income from athletic events should go directly to university general funds, and students should be admitted free to all university athletic events.

The publication also recommends that athletic scholarships not be given, that coaches be full-time faculty members with academic status, and that all students be required to participate in the physical education program.

Personal notices

Staff members may forward notices to reach the Editor two weeks prior to publication. They must be typed, and not exceed 35 words (including heading). Advertisements received will be published at the Editor's discretion.

FOR RENT IN ENGLAND—Commodious, furnished house near Ealing Broadway, central London. Three bedrooms, two bathrooms. Rent £20 per week (including garden maintenance; by arrangement, for periods over three months. Details at Public Relations Office, local 4201.

French biochemist visits

Dr. C. T. Phan of the Laboratoire de Biologie Vegetale, Centre National de la Recherche Scientifique, Bellevue, France, is spending the month of May in the Department of Plant Science.

Dr. Phan, Head of the Bellevue Laboratories' Section for Investigation of Volatile Products Emanated by Fruits and Flowers, is here to exchange techniques used in research on the biochemistry of ethylene with Dr. Mary Spencer, Professor of Plant Science and Biochemistry.

Ethylene is a gas produced by many living things, animal and vegetable, and among its uses is that of an agent in speeding up the natural ripening process of fruit.

Before returning to France, Dr. Phan will attend the annual meeting of the Canadian Society of Plant Physiologists in Ottawa, May 30 to 31 with a group from the Department of Plant Science at the University.

To host research institute

The Department of Mathematics will be host to the Summer Research Institute 1967 (Western Branch) of the Canadian Mathematical Congress.

Many staff members of the Department will be participating and several eminent mathematicians have accepted invitations to visit the Institute for varying periods of time.

A tentative list includes: Professor G. Szekeres of the University of London (May 15 to June 15); Professor J. Mahoney of the University of Wisconsin (June 5 to June 12); Professor P. Anselone of the University of Wisconsin (June 12 to June 16); and Professor G. Lorentz of the University of Syracuse (July 15 to July 30).

Ph.D.'s don't leave Canada

The new generation of Canadian scholars are opting for a career in Canada, and, contrary to the common notion, studies abroad have little effect on their choice.

According to a Canada Council study, released recently, 97 per cent of the Council's doctoral fellowship winners in the humanities and social sciences who studied in Canada are working in this country. As for those winners of fellowships who completed their studies in the United States or abroad, a good 80 per cent have returned to work in Canada, and most of the minority now working in other countries hope eventually to return. Some of the respondents to the survey had already worked in other countries and come back.

The survey indicates that 92 per cent of award-winners who have taken their doctorate have taken up teaching careers in the universities. The survey also pointed out that almost all of the Canada Council fellowship winners have received or are still working towards their Ph.D. The failure rate, at less than 4 per cent, is marginal.

The Canada Council has offered doctoral fellowships in the humanities and social sciences every year since its founding, in 1957. The number of recipients has increased steadily each year, in step with a growing demand. While there were 97 awards given for the 1958-59 academic year, close to 1,000 are being granted this year.

The Canada Council survey was made among the 809 fellowship winners of the first seven years of the programme, from 1958-59 to 1964-65. A detailed questionnaire was mailed to all 809, and replies were received from 588, or 73 per cent of the total.

Returns of the questionnaire and later figures indicate a growing trend for Canadians to seek their doctoral degrees in this

country. Of the 588 respondents to the questionnaire, 26.7 per cent received or will receive their degree from Canadian universities, while 41.3 per cent studied at universities in the United States, and 32 per cent studied in other countries, chiefly England and France. However, 30 per cent of last year's award winners are studying in Canadian universities, and the coming year's total is close to 35 per cent. In numerical terms, the Council will be supporting 329 Ph.D. candidates in Canadian universities during the coming academic year. This is more than ten times the awards granted in any of the first three years of the Council's operation. It is a good deal more than twice last year's figure of 127.

The questionnaire revealed that all but 13 per cent of the respondents now employed are working in Canada. Ninety-seven per cent of the group who studied in Canadian universities are working here; 77 per cent of those who took their doctorate in the United States have returned to Canada for employment; and the percentage of those returning from other foreign countries was even higher—slightly over 90 per cent. The combined repatriation rate was 80 per cent, and of the 58 award holders who were working abroad, 34 hope to come back. A significant number of the respondents had come back to Canada from working abroad.

The repatriation rate is higher for women (84 per cent) and much higher for French speaking award holders (92.5 per cent).

Awards and grants

Because of the limited time generally available to reply to the notices published here, and the nuisance involved in writing for additional details, FOLIO will attempt to publish in full the more important notices received. The original announcements may be examined at the Public Relations Office, 11224-87 Avenue.

SENIOR RESEARCH FELLOWSHIPS

The National Research Council of Canada will provide a limited number of Senior Research Fellowships in Science and Engineering for tenure during 1968-69 to give experienced research investigators who have been granted sabbatical leave an opportunity to visit laboratories and pursue their research interests without the burden of teaching responsibilities.

Senior Research Fellowships are normally awarded to enable the recipient to visit laboratories outside Canada, but are tenable at any recognized university for periods ranging from six months to one year. These awards cannot be renewed or extended beyond one year.

To be eligible for a Senior Research Fellowship, the candidate must be a member of the academic staff of a Canadian university, normally with at least five years of productive research experience as an independent investigator in one of the fields of science and engineering supported through National Research Council grants in aid of research.

The value of a Senior Research Fellowship to a single recipient is a stipend of \$4,000 for 12 months (which is reduced on a pro rata basis for periods of less than 12 months), plus

the cost of the recipient's economy return air fare to the point at which the major portion of the sabbatical leave is to be spent.

A married recipient receives a stipend of \$5,000 for 12 months (reduced on a pro rata basis for periods of less than 12 months), plus the cost of the recipient's economy return air fare to the point at which the major portion of the sabbatical leave is to be spent, and an equivalent air fare allowance for the recipient's wife if she accompanies him. No allowance is made towards the cost of travel of the recipient's children or other members of his family.

The values described are in addition to allowances made by the recipient's university, but are subject to reduction by (a) concurrent awards from other granting agencies, (b) remuneration for any teaching duties performed during the tenure of the Fellowship, and (c) cost of travel provided by any source.

Application is made by the submission of form NRC 614 accompanied by personal data form NRC 600. These forms may be obtained from R. J. Leonard, Office of the Bursar, local 3370, or from the Awards Office, National Research Council, 100 Sussex Drive, Ottawa. Applications for Senior Research Fellowships are considered at November Council meetings, and at no other times.

The final closing date for receipt of applications for Senior Research Fellowships tenable in 1968-69 is September 15, 1967.

PROGRAM OF EXCHANGE OF SCIENTISTS WITH FRANCE

As part of the scientific exchanges provided by the cultural agreement between the Government of Canada and the Government of the French Republic, the National Research Council of Canada is prepared to support the following visits of Canadian scientists to France:

(1) Up to ten eminent scientists a year for periods lasting two to four weeks to give lectures, conduct seminars and to become familiar with research and scientific institutions engaged in research in various problems of science. Visits to France will be financed on the basis of trans-Atlantic air travel (economy jet), ground transportation within France and living accommodations (\$40.00 per day).

(2) Up to eight research workers a year, with five years or more of postdoctorate research experience, for programs of six months to one year duration, to pursue research in universities or scientific institutes. Financial support will consist of trans-Atlantic air travel (economy jet) and \$500 per month if single or \$600 per month if married; other conditions will be the same as those specified for the NRC Senior Research Fellowships. In the case of scientists of special distinction, the value of the Fellowship will be given special consideration.

The National Research Council of Canada is now prepared to accept applications from Canadian scientists for participation in this exchange program to take place during 1967 and 1968.

Applications will be accepted in the fields of Science currently supported by NRC: Architecture, Astronomy, Biology and Agriculture, Chemistry, Engineering (Chemical, Civil, Electrical and Mechanical), Geology, Geophysics, Metallurgy, Meteorology, Oceanography and Limnology, Physics. Applications received before October 15 will receive consideration at the November meeting of the Council. Knowledge of the French language would, of course, be an advantage.

Application forms are available from Mr. R. J. Leonard, Office of the Bursar, local 3370, or from Dr. O. Heroux, National Research Council, 100 Sussex Drive, Ottawa.